CMA DISHMACHINES

MODEL L-1X & L-1X16

PARTS MANUAL

Rev 1.18

c UL us LISTED COMMERCIAL DISHWASHER 864T

NSF

ENERGY STAR

ENERGY STAR PARTNER

CMA DISHMACHINES
12700 KNOTT AVENUE
GARDEN GROVE, CALIFORNIA 92841

800-854-6417

FAX 714-895-2141

ALI GROUP FOODSERVICE EQUIPMENT

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1. Parts Manual

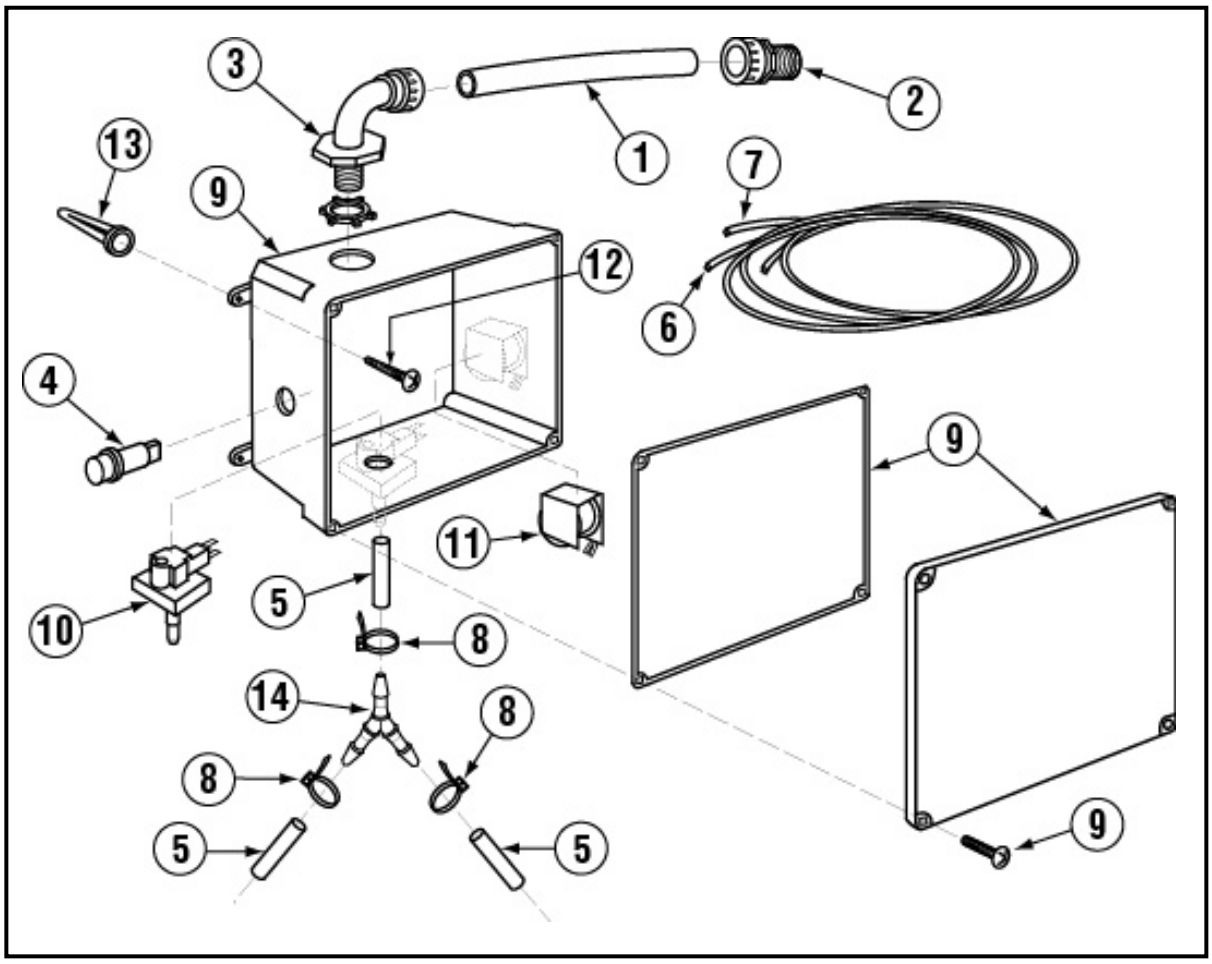
1.1. Initial Parts Kit (P/N 4001.00)

P/N	DESCRIPTION	Qty
00200.10	Pump Assy, 110/220V 60 Hz, Open	1
00206.00	Pump Seal Kit	1
00208.00	Slip Joint Nut Gasket	1
00304.03	Spray Arm B L1-C & L-1X	1
00308.50	Spray Arm End Plug SS	1
00404.82	Motor Contactor Relay	1
00411.00	Micro Switch	1
00415.00	Peristaltic Pump Assembly, 120V/60Hz	1
03470.01	Toggle Switch, momentary, (.25 flat terminal)	1
00425.51	Chemical Tubing Blue	50 ft.
00425.53	Chemical Tubing Red	50 ft.
00425.54	Chemical Tubing White	50 ft.
00433.10	Master Switch (20 Amp)	1
00435.00	Squeeze Tube, 8", Silicone	1
00435.62	Squeeze Tube, 24", L-1X	1
00458.00	Squeeze Tube, Black (Detergent)	1
00501.00	Timer Motor, 2-Minute	1
00557.55	Kynar Reed Switch, 110/220V, 36"	1
00707.00	1/2 Water Solenoid Repair Kit, JE	1
00715.00	1/2 Ball Check Valve	1
00738.10	Solenoid Coil, JE, 120V, (¾" & ½")	1
03202.00	Thermometer, Capillary	1
03406.64	Drain Toggle Switch	1
03415.00	Chemical Tube Bulkhead	1
03415.60	Chemical Bulkhead (Teflon) Assy	1
04103.00	L-1X / L1-C Drain Valve, 120V	1
04110.00	SS L1-C/L-1X Drain Screen	1
04303.00	L1-X Spray Arm Bearing	1
04305.10	Red Silicone Gasket, 1/16 Thick	1
04517.15	Door Stop (Parallel)	1

NOTE: CMA recommends that the initial parts kit be kept on hand as a back up supply of critical parts in the event your machine should require emergency service. All the parts included in this kit are unique to the L-1X and L-1X16 dishmachine.

1.2. Optional Sani Alarm

Part Number 12508.00



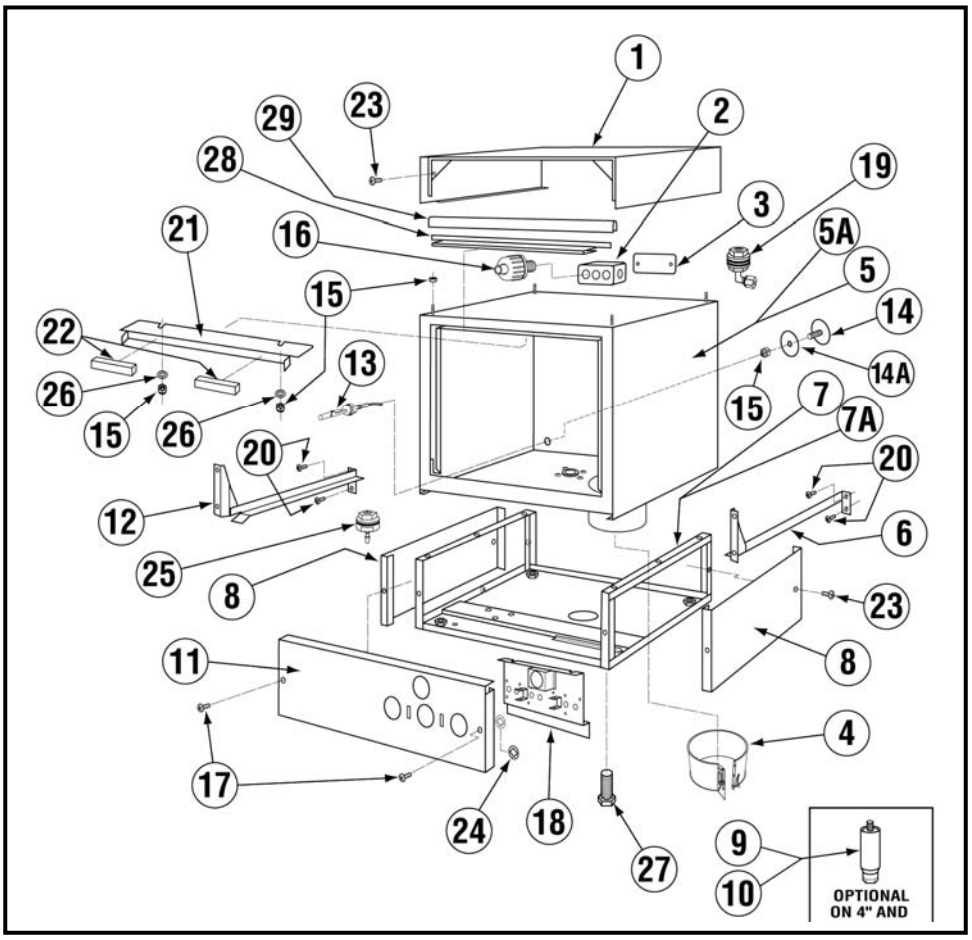
Exploded View

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	3	00400.00	Conduit, 3/8" Sealtite
2	1	00401.00	S.T. 3/8" Straight Connector
3	1	00402.00	S.T. 90 Degree 3/8" Connector
4	1	00406.00	Control Box Light, .5" Diameter, Red
5	1	00435.00	Squeeze Tube, 8"
6	1	00521.00	Wire, 18 Gauge, Orange, 6 ft.
7	1	00531.00	Wire, 18 Gauge, White, 6 ft.

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
8	5	00931.00	Wire Tie, Small
9	1	12510.00	Sanitizer Alarm Box Assembly
10	1	12511.00	Sanitizer Low Level Vacuum Switch
11	1	12512.00	Sanitizer Alarm Buzzer, 120 Volts
12	4	40126.10	#10 x 3/4" Sheet metal Screw
13	4	40127.00	Wall Anchors
14	1	00426.00	Y Hose Connector, 3/16"

1.3. Exploded View Drawings

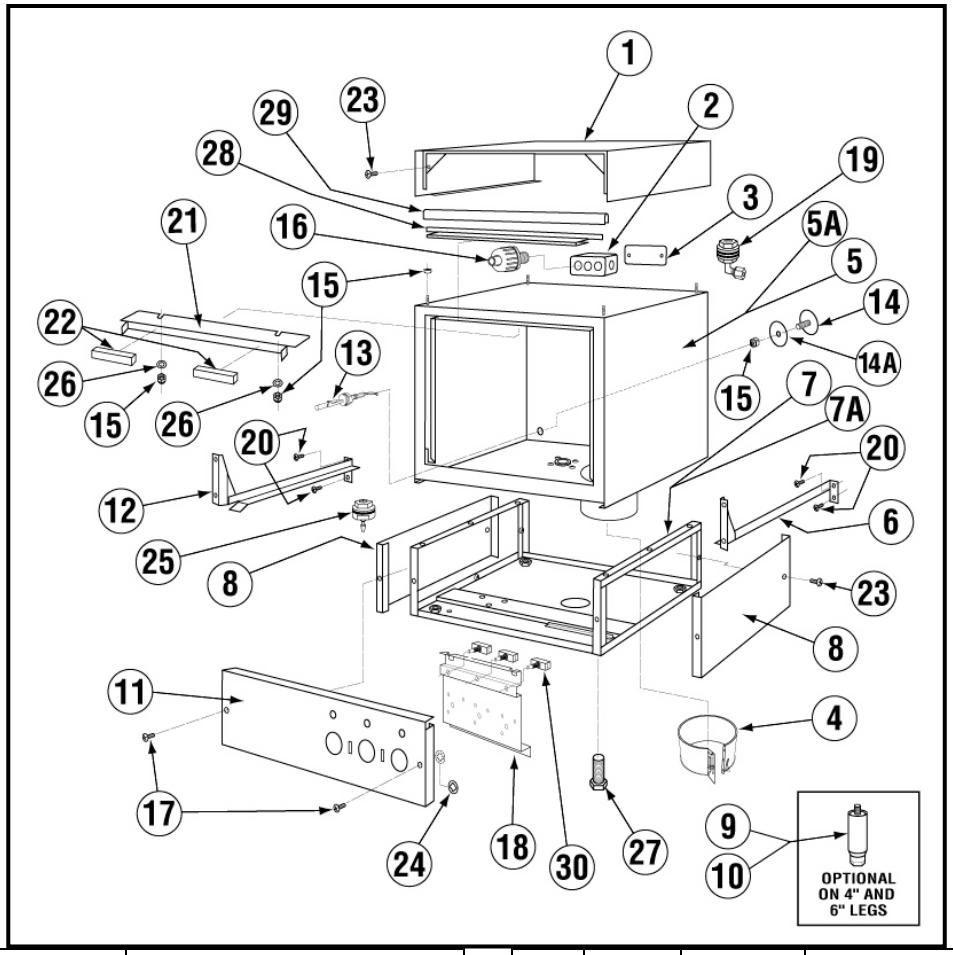
1.3.1. Cabinet Assembly



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04903.73	L-1X Top Cover
2	1	03420.00	Undercounter Bell Box
3	1	03423.00	Undercounter Bell Box Cover
4	1	04109.10	Sump Heater (Optional)
5	1	04901.60	Stainless Steel Body
5A	1	04901.73	Stainless Steel Body L-1X16
6	1	04911.60	Tray Track (RH)
7	1	04902.82	Stand "Open Style" L-1X
7A	1	04902.73	Stand "Open Style" L-1X16
8	2	04902.84	Panels for Open Style Stand
9	4	01146.50	4" Leg (Optional)
10	4	01146.00	6" Leg (Optional)
11	1	04915.86	Front Peri Pump Panel
12	1	04912.60	Tray Track (LH)
13	1	13463.10	Liquid Level Switch)
14	1	01513.60	Hole Stopper

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
14A	1	00752.60	Hole Stopper Gasket
15	9	00912.00	Nylon Lock Nut 1/4"-20
16	1	00401.50	3/8" Black Nylon Straight Connector
17	2	00941.00	10-32 x 5/8" Pan head Screw
18	1	04914.86	L-1C and L-1X Peri Pump Mount
19	2	03415.00	Chemical Tube Bulkhead
20	4	00914.00	1/4-20 x 3/4" Hex Head Bolt
21	1	14558.00	Body Magnet Holder
22	1	00557.80	Door Magnet
23	10	00940.50	10-32 x 3/8" Truss Head Screw
24	2	03816.00	Nylon Retaining Washer
25	1	03415.60	Chemical Tube Bulkhead Barbed
26	2	00924.00	Washer SS 1/4"
27	4	01310.60	Leg Adjusters
28	1	14506.45	Gasket Bracket
29	1	14506.50	Door Gasket

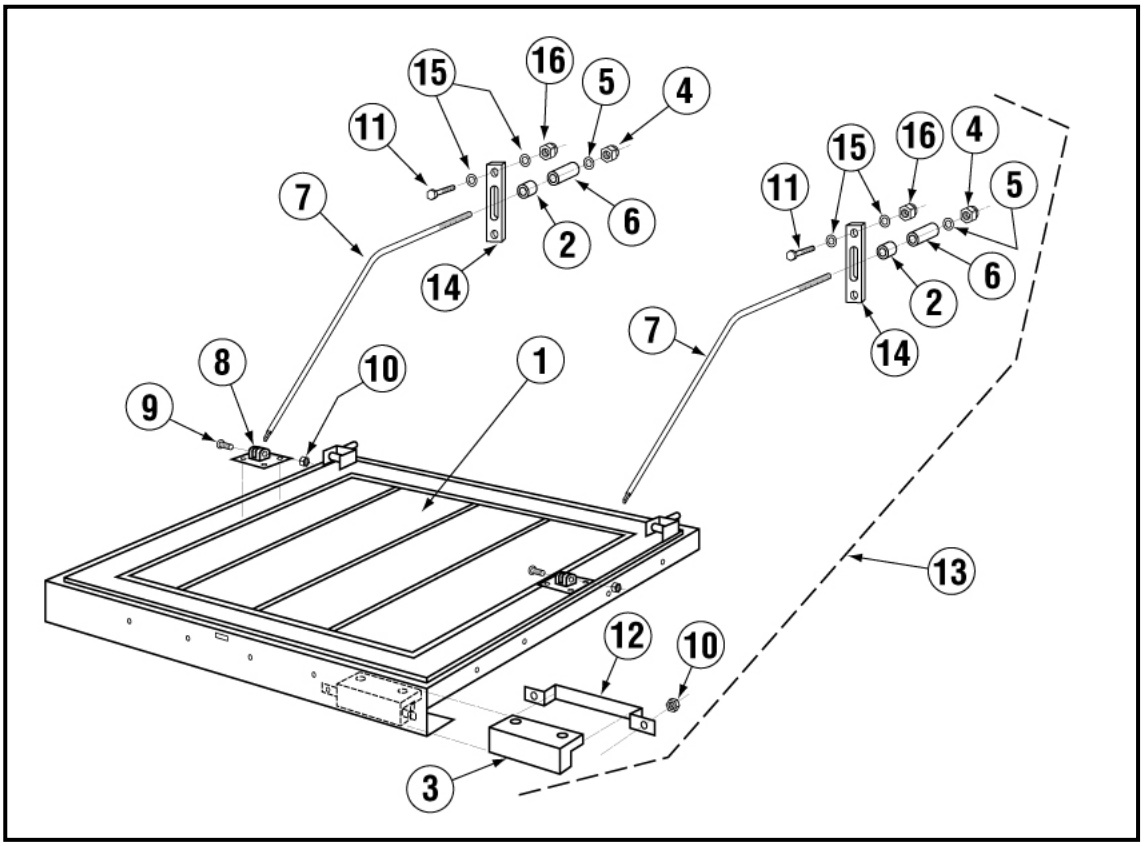
1.3.2. Cabinet Assembly (Effective 06/2007)



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04903.73	L-1X Top Cover
2	1	03420.00	Undercounter Bell Box
3	1	03423.00	Undercounter Bell Box Cover
4	1	04109.10	Sump Heater (Optional)
5	1	04901.60	Stainless Steel Body
5A	1	04901.73	Stainless Steel Body L-1X16
6	1	04911.60	Tray Track (RH)
7	1	04902.82	Stand "Open Style" L-1X
7A	1	04902.73	Stand "Open Style" L-1X16
8	2	04902.84	Panels for Open Style Stand
9	4	01146.50	4" Leg (Optional)
10	4	01146.00	6" Leg (Optional)
11	1	04915.78	Front Peri Pump Panel
12	1	04912.60	Tray Track (LH)
13	1	13463.10	Liquid Level Switch (Optional)
14	1	01513.60	Hole Stopper

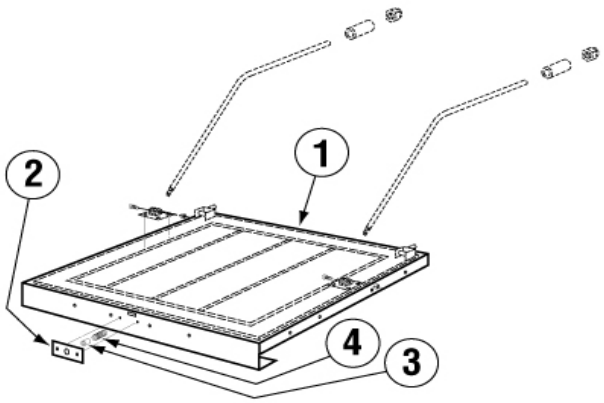
ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
14A	1	00752.60	Hole Stopper Gasket
15	9	00912.00	Nylon Lock Nut 1/4"-20
16	1	00401.50	3/8" Black Nylon Straight Connector
17	2	00941.00	10-32 x 5/8" Pan head Screw
18	1	04914.78	L-1C and L-1X Peri Pump Mount
19	2	03415.00	Chemical Tube Bulkhead
20	4	00914.00	1/4-20 x 3/4" Hex Head Bolt
21	1	14558.00	Body Magnet Holder
22	1	00557.80	Door Magnet
23	10	00940.50	10-32 x 3/8" Truss Head Screw
24	2	03816.00	Nylon Retaining Washer
25	1	03415.60	Chemical Tube Bulkhead Barbed
26	2	00924.00	Washer SS 1/4"
27	4	01310.60	Leg Adjusters
28	1	14506.45	Gasket Bracket
29	1	14506.50	Door Gasket
30	3	03475.00	Prime switches

1.3.3. L-1X Door Assembly (Old Style)



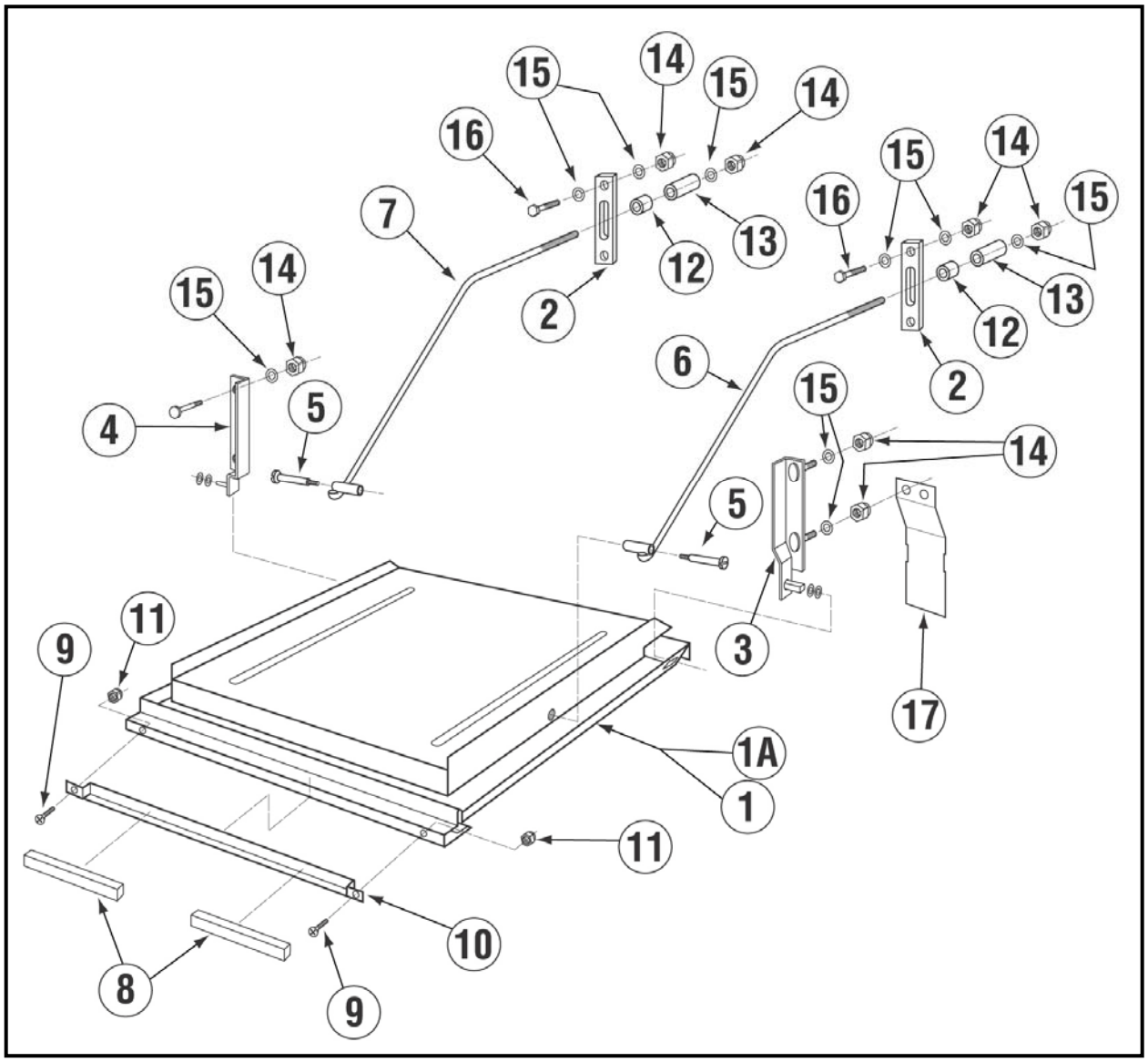
ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04906.90	Inner & Outer Panel Assy.
2	2	00605.30	Door Rod Spacer
3	1	00557.60	Reed Switch Magnet
4	2	13805.00	5/6" 18 Lock Nut
5	2	00926.00	5/15" SS Washer
6	2	04517.15	Door Stop (Silicone) Parallel
7	2	04918.10	Door Support Rod Angled
8	1	04916.00	Door Clevis
9	3	13825.00	#8 32 x 1" Pan Head Screw
10	2	00927.00	#8-32 Lock Nut
11	4	00914.10	Bolt 1/4"-20 x 5/8"
12	1	00558.61	Reed Switch Magnet Bracket
13*	1	04509.20	Door Complete
14	2	04517.62	Door Support Rod Block
15	8	00924.00	Washer 1/4" SS
16	4	00912.00	Lock Nut Nylon 1/4"-20

*Excludes Item #2, 11, 14, 15 & 16



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04906.90	Inner & Outer Panel Assembly
2	1	04510.00	L-1C Door Catch Plate
3	1	04511.00	L-1C Catch Hemi-Ball SS
4	1	04512.00	L-1C Catch Ball Spring

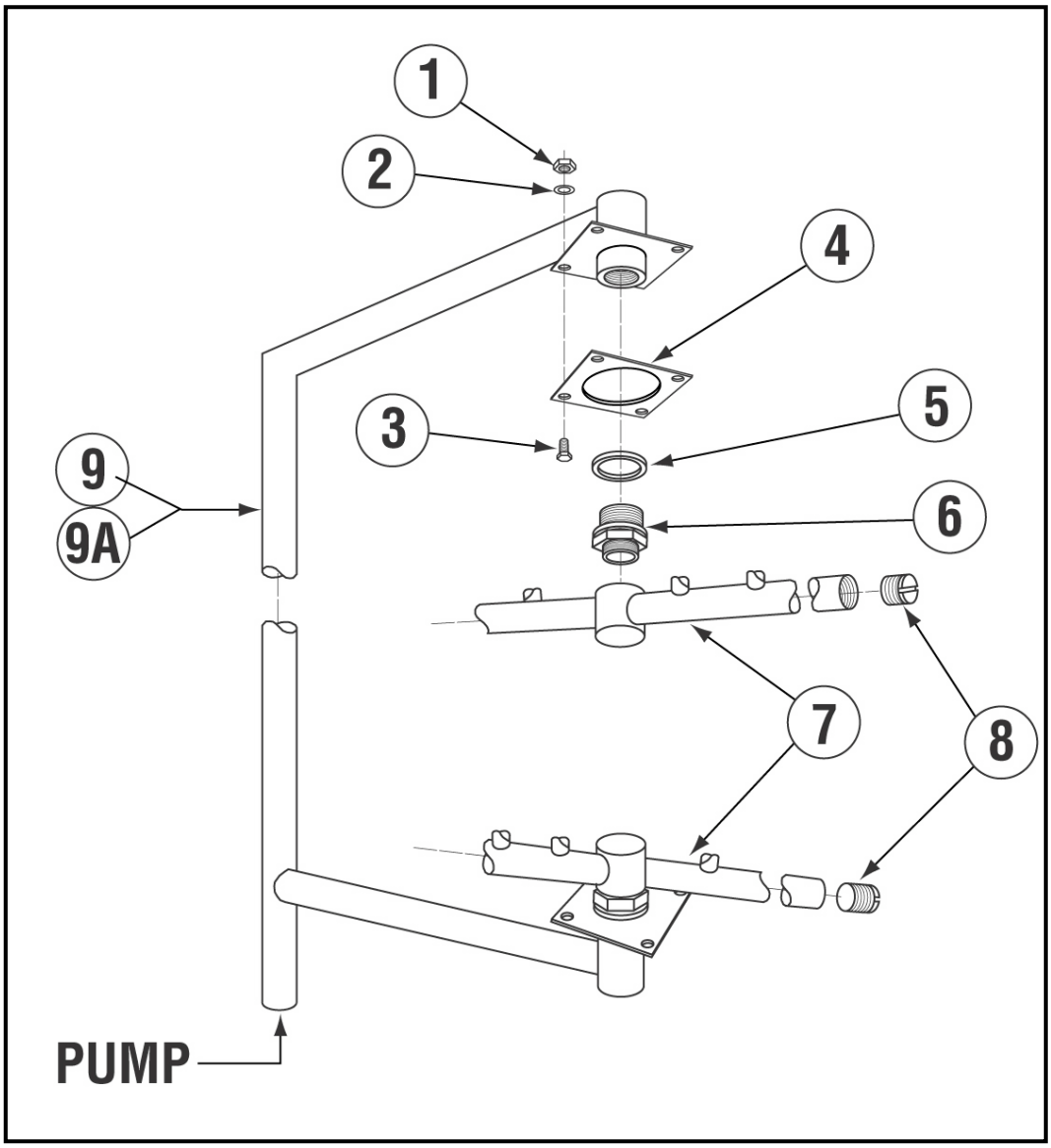
1.3.4. L-1X/L-1X16 Door Assembly



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04907.90	L-1X Door (New 7-2002)
1A	1	14506.00	Door for L-1X16
2	2	04517.60	Door Support Rod Block
3	1	14570.00	Door Hinge (RH)
4	1	14570.50	Door Hinge (LR)
5	2	04919.00	Door Rod Screw Pin for Door
6	1	04918.60	Door Support Rod Right
7	1	04919.50	Door Support Rod Left
8	2	00557.80	Door Magnet

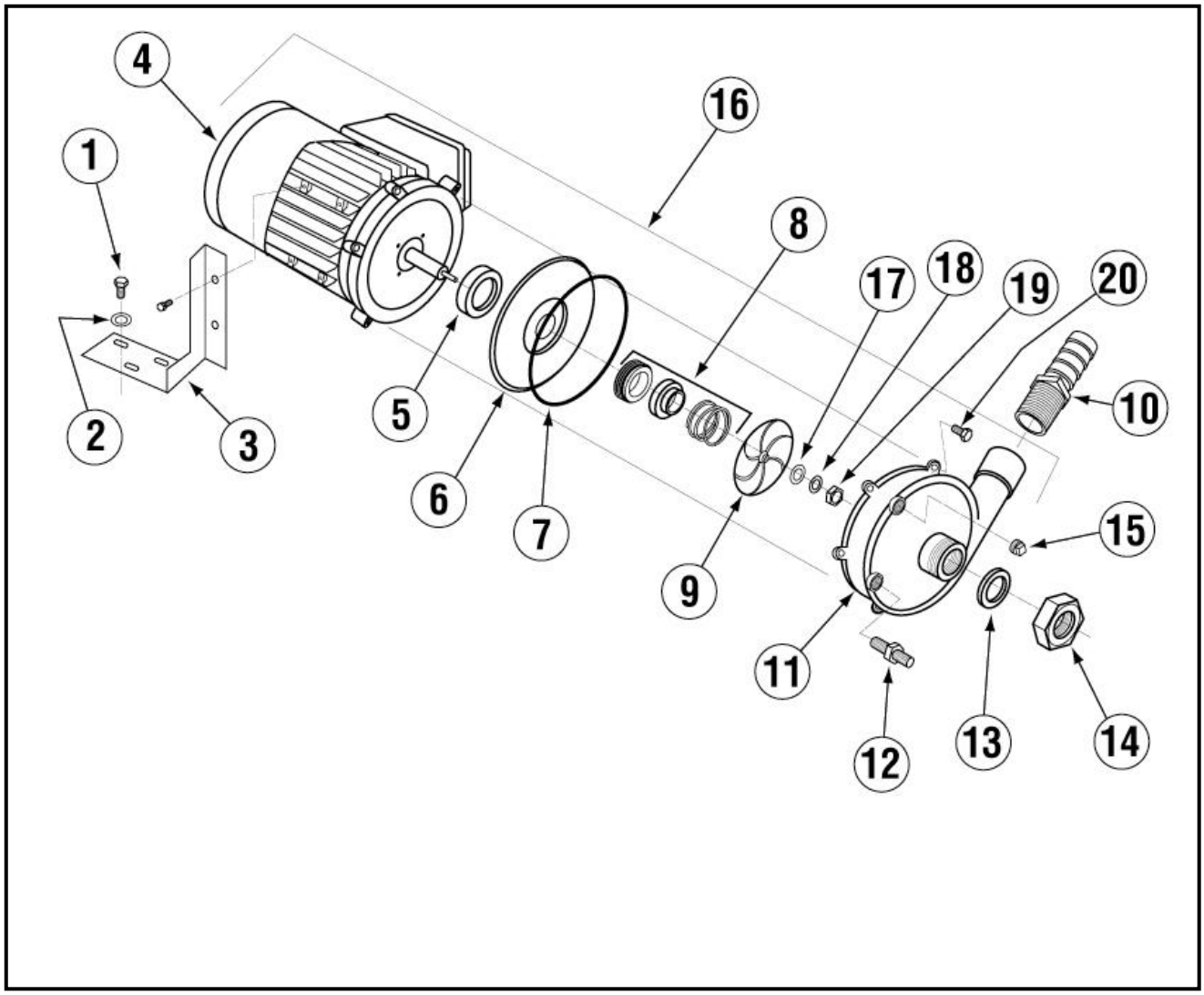
ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
9	2	00970.60	6 32 x 1/2" Flathead Screw
10	1	14558.61	Door Magnet Holder
11	2	00965.00	06-32 Lock Nut
12	2	00605.20	Door Rod Spacer
13	2	04517.15	Door Stop (Parallel)
14	10	00912.00	1/4"-20 Nylon Lock Nut
15	14	00924.00	1/4" SS Washer
16	4	00914.10	1/4"-20 x 5/8" Hex Head Bolt
17	2	14518.00	Splash Guard

1.3.5. Spray System Assembly



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	8	00912.00	1/4"-20 Nylon Lock Nut
2	16	00924.00	1/4" SS Washer
3	8	00929.00	1/4"-20 x 3/4" Truss Head Bolt
4	2	04306.00	Square Manifold Gasket
5	2	04305.10	Silicon Gasket
6	2	04303.00	L-1X Spray Arm Bearing
7	2	00304.03	Spray Arm
8	4	00308.50	Spray Arm End Plug
9	1	04301.00	L-1X Spray Manifold
9A	1	04301.60	L1-X16 Spray Manifold

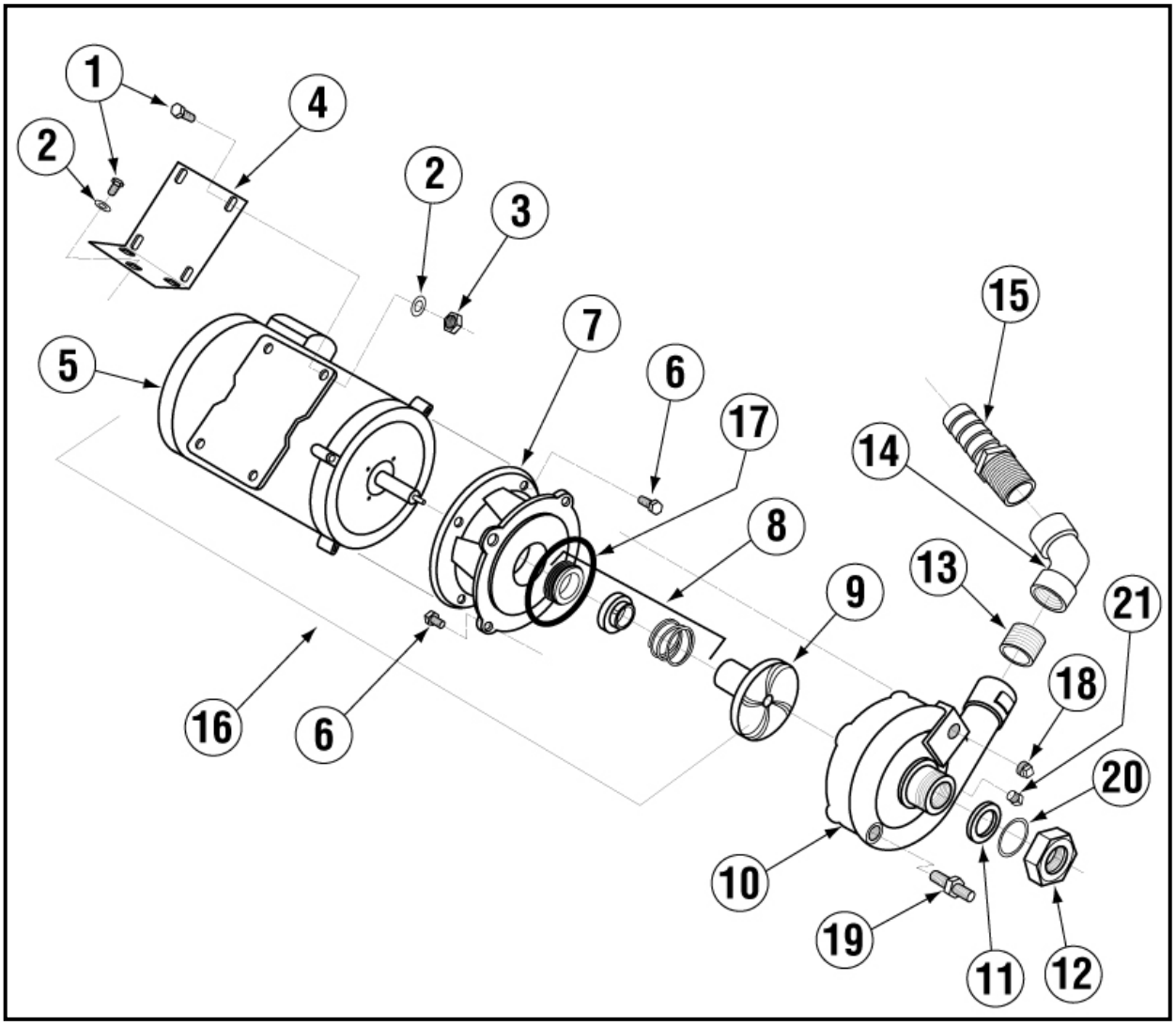
1.3.6. S/S Pump Assembly (Effective August 2009)



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	3	00908.00	5/16"-18 x 5/8" SS Hexhead Bolt
2	3	00926.00	5/16" SS Washer
3	1	00200.78	SS Pump Motor Holder "L"
4	1	00201.65	SS Wash Pump Motor 115v
5	1	00201.96	Slinger Washer Cone Shape
6	1	03224.60	SS Pump Backplate
7	1	03226.70	Volute O-Ring For SS Pump
8	1	00206.70	SS Pump Seal Kit
9	1	03222.60	SS Pump Impeller
10	1	50302.10	1" MPT x 1" Barb Brass

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
11	1	04206.75	SS Pump Cover
12	1	00214.50	1/2" Comp x 3/8" MIP Adapter
13	1	00208.40	Slip Joint Nut O Ring Buna
14	1	00207.00	Slip Joint Nut 1 1/2 x 1 1/4
15	1	00238.00	3/8" Male Plug
16	1	00200.75	Includes Items 4,5,6,7,8,9,and 11
17	1	03222.74	Flat Washer 8 mm
18	1	03222.72	Shaft Nut Lock Washer 8mm
19	1	13809.70	SS Pump Seal Shaft Nut 8mm
20	6	00914.70	Socket Head Screw 10 mm

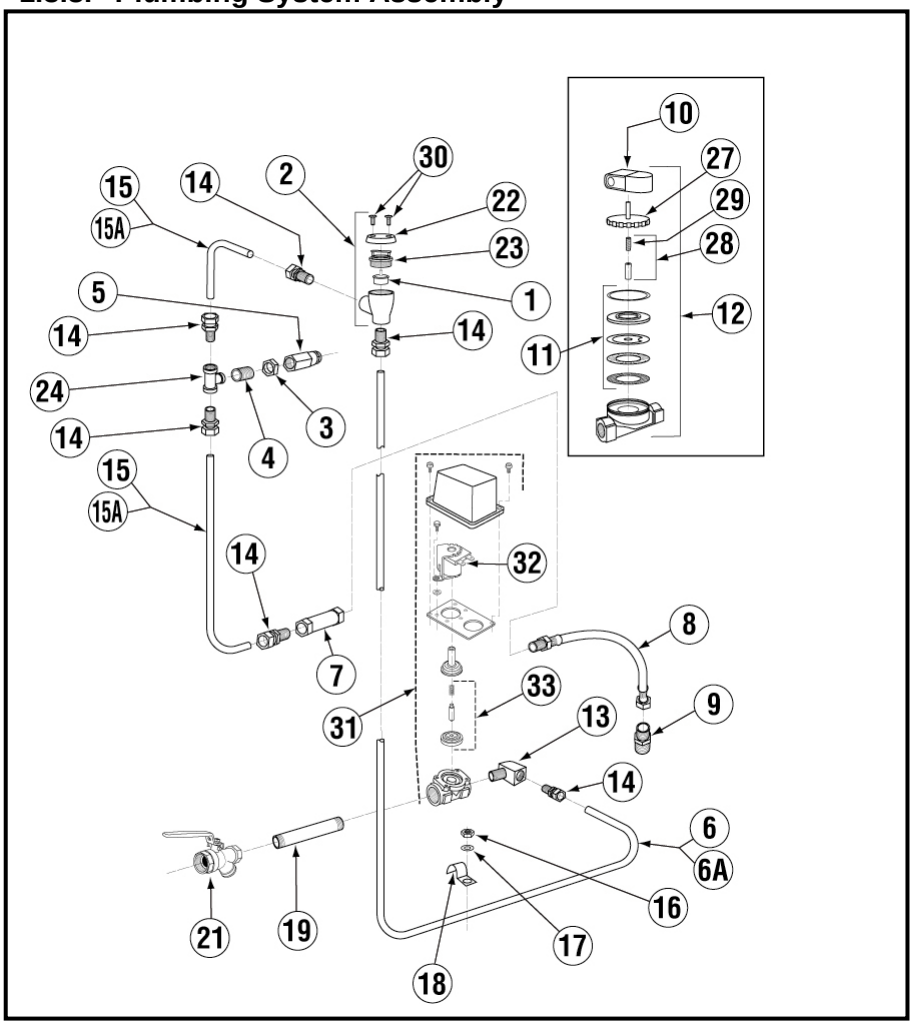
1.3.7. Pump Assembly



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	7	00908.00	5/16"-18 x 5/8" SS Hexhead Bolt
2	7	00926.00	5/16" SS Washer
3	4	13805.00	5/16"-18 Nylon Lock Nut
4	1	04909.00	Motor Mount
5	1	00201.00	Water Pump Motor 1 HP
6	8	00921.00	3/8"-16 x 3/4" Hex Bolt
7	1	03224.00	Pump Base (Mount)
8	1	00206.00	Pump Seal Kit
9	1	03222.05	Impeller (universal) open
10	1	04206.30	Pump cover for L-1X/L-1X16
11	1	00208.00	Slip Joint Nut Gasket

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
12	1	04204.00	Compression Nut 2.5"
13	1	14004.00	1" close Nipple SS
14	1	04601.00	45 Degree Elbow FIP x FIP
15	1	50302.06	1" MIP x 1" Barb PVC
16	1	00200.10	Includes Items 5, 6, 7, 8 and 9
17	1	03226.00	Pump "O" Ring Gasket
18	1	00238.00	3/8" Male Plug
19	1	00214.50	1/2" Comp x 3/8" MIP Adapter
20	1	00208.20	Slip Joint Nut Friction Ring
21	1	03232.00	1/8" Male Plug

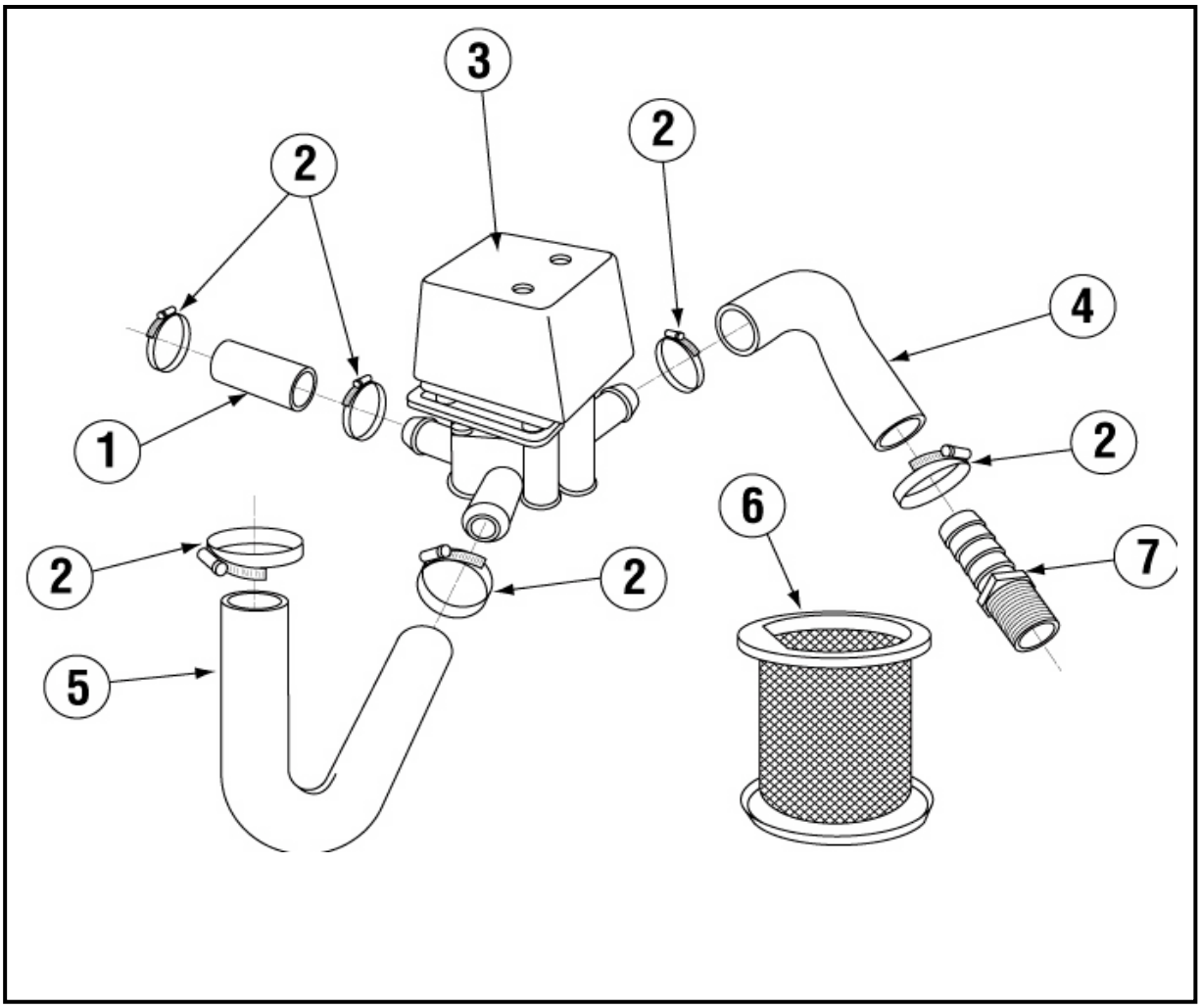
1.3.8. Plumbing System Assembly



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	03623.00	1/2" Vac. Brkr Repair Kit – WATTS
2	1	03624.00	1/2" Vacuum Breaker – WATTS
3	2	00721.00	1/2" Jamb Nut
4	1	03614.00	1/2" Brass (Close) Nipple
5	1	00748.50	1/2" Shrub Head
6	1	04605.00	L-1X "U" Tube
6A	1	04605.60	L-1X 16"U" Tube
7	1	00715.00	Ball Check Valve
8	1	00798.00	SS Braided Hose
9	1	00214.50	1/2" Comp x 3/8" MIP FTG
10	4	00738.10	Water Solenoid Coil J/E
11	1	00707.00	1/2" Water Solenoid Repair Kit J/E
12	1	03603.10	1/2" Water Solenoid Valve J/E
13	1	00745.00	1/2" 90 Degree Street Elbow
14	6	00760.00	5/8" Comp. X 1/2" MIP Adapter
15	1	04606.00	L-1X "L" Tube
15A	1	04606.60	L-1X16 "L" Tube
16	1	00915.00	1/4"-20 Hex Nut

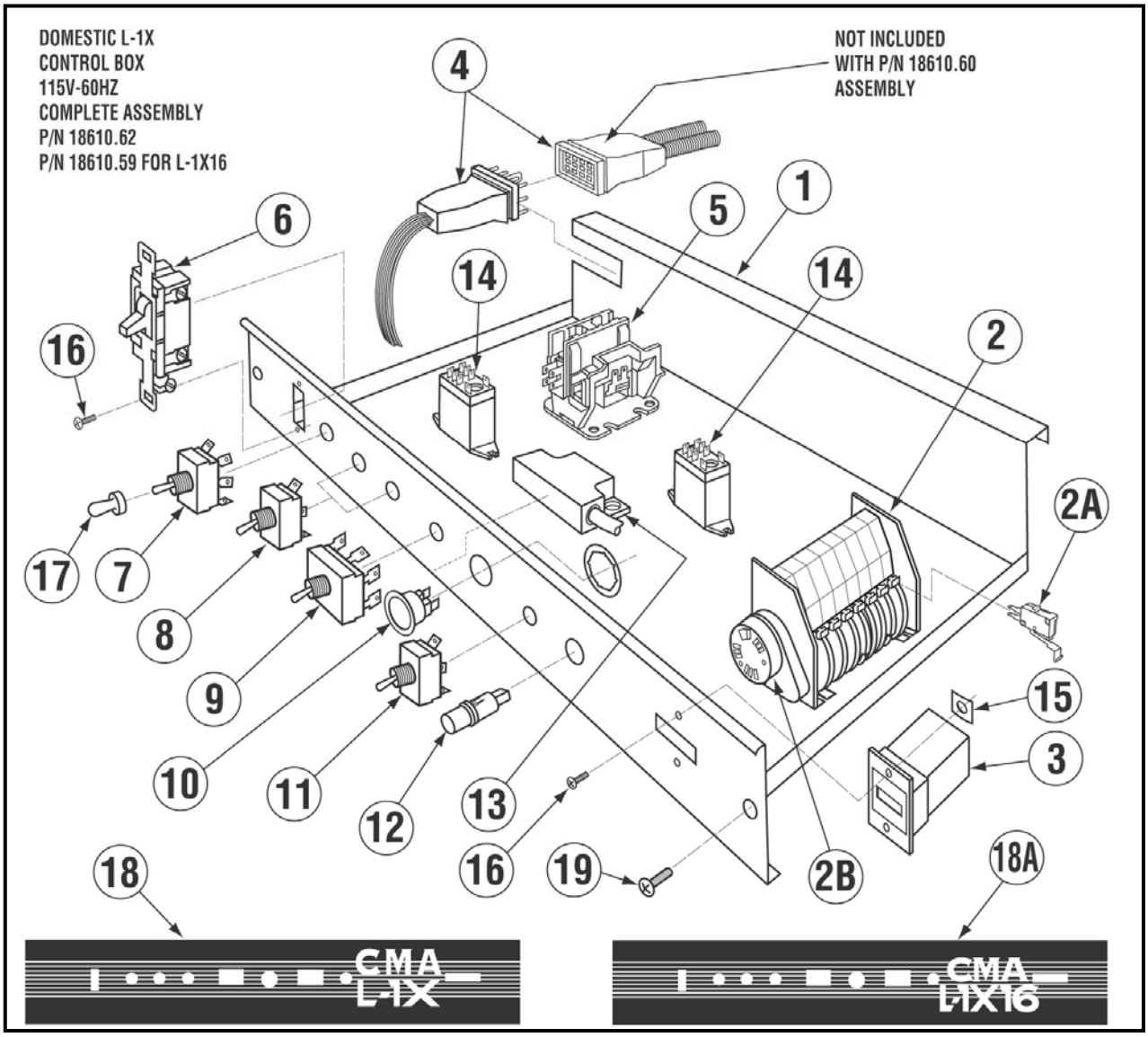
ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
17	1	00924.00	1/4" SS Washer
18	1	00725.50	1/2" Plumbing Strap
19	1	00747.10	Nipple Brass 1/2" x 5"
20	1	03602.50	1/2" Y Strainer – Optional
21	1	41062.00	1/2 Strainer Ball Valve
22	1	00739.50	Vacuum Breaker Cap SS
23	1	03624.25	Vacuum Breaker Bonnet Brass
24	1	00743.10	1/2" Tee FxFxF
25	1	00742.00	Nipple Brass 1/2" x 1-1/2" (Optional)
26	1	00744.00	Nipple Brass 1/2" x 2" (Optional)
27	1	03603.20	1/2" Water Solenoid Bonnet
28	1	00786.00	Water Solenoid Valve Plunger
29	1	00706.10	Plunger Spring Only
30	2	00970.40	6-32 x 1/4" Phillips Pan Head Screw
31	1	03604.00	SS Water Solenoid Valve 1/2"
32	1	41015.60	1/4 Water Solenoid Coil Only 110V
33	1	03604.30	Dema Valve Repair Kit 1/2"

1.3.9. Drain System Assembly



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	2	04105.00	Pump Hose 6.5"
2	8	03101.00	1" Hose Clamp #16
3	1	04103.00	L-1X Drain Valve (Depend-O-Drain)
4	1	03108.51	1" Goose Neck Drain Hose
5	1	03109.00	Drain Hose 90DEG 1"
6	1	04110.00	L-1X Drain Screen SS
7	1	50302.06	1" MIP x 1" Barb PVC

1.3.10. Control Box

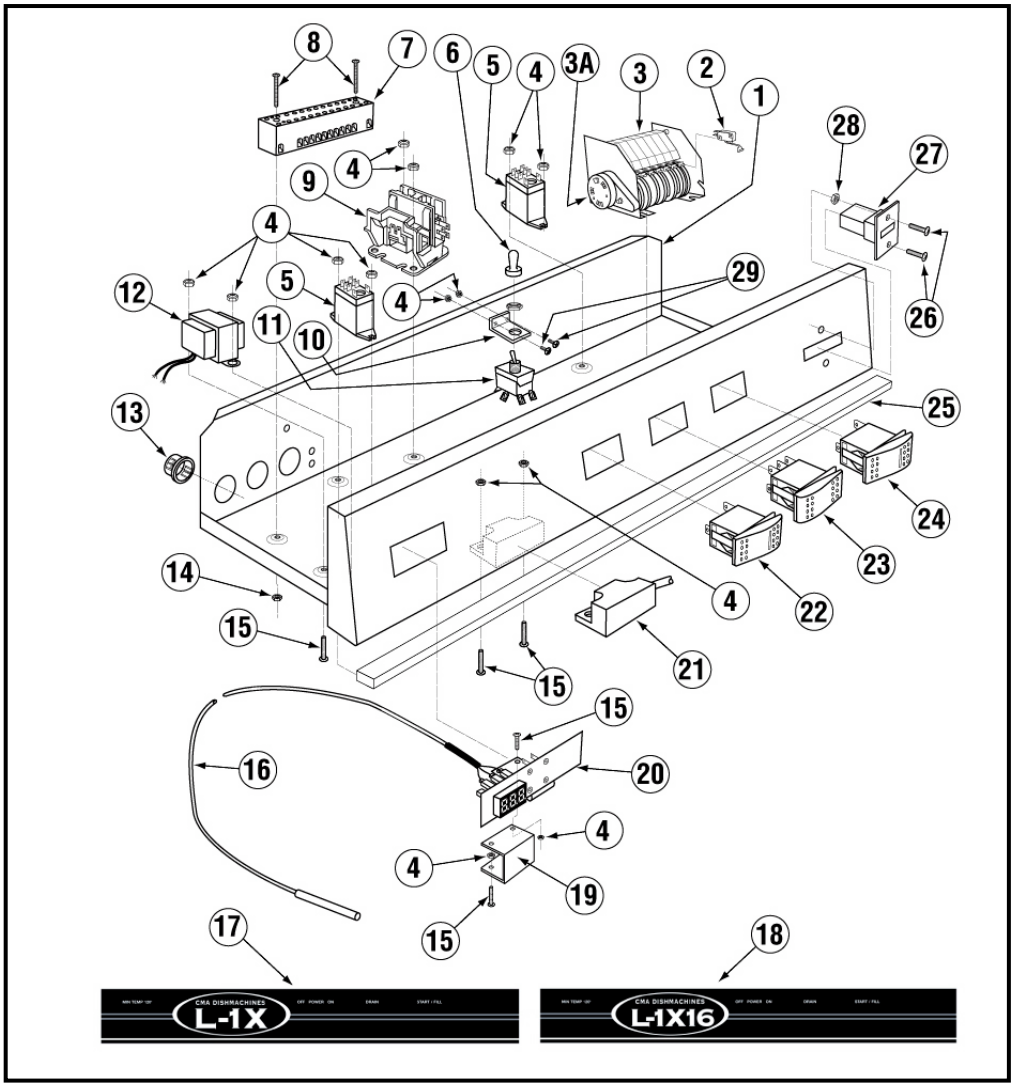


ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04904.60	Top Drawer
2	1	00408.80	Timer 2 Minute 8 Cam
2A	8	00411.00	Micro switch
2B	1	00501.00	Timer Motor
3	1	03408.50	Counter (Panel Mount – Small)
4	1	04415.00	Wire Harness (L-1X)
5	1	00404.82	Contactor Relay
6	1	00433.10	Master Switch
7	1	00475.30	Toggle Switch DPDT 16A, 2 pos
8	2	03470.00	Toggle Switch (Momentary)
9	1	03406.64	Drain Toggle Switch DPST

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
10	1	00476.00	Running Light 120V, Green
11	1	03470.01	Toggle Switch, mom., (.25 flat term.)
12	1	00406.00	Control box Light Red
13	1	00557.55	Magnetic Reed Switch (NEW)
14	1 or 2*	00631.00	Ice Cube Relay
15	2	00917.00	8-32 PM Nut
16	4	00911.00	8-32 x 1/2" Pan Head Screw
17	4	00470.10	Rubber Boot
18	1	06231.00	L-1X Drawer Label
18A	1	06231.02	L-1X16 Drawer Label
19	2	00940.50	10-32 x 3/8" Truss Head Screw

**Second relay present only with heater option.*

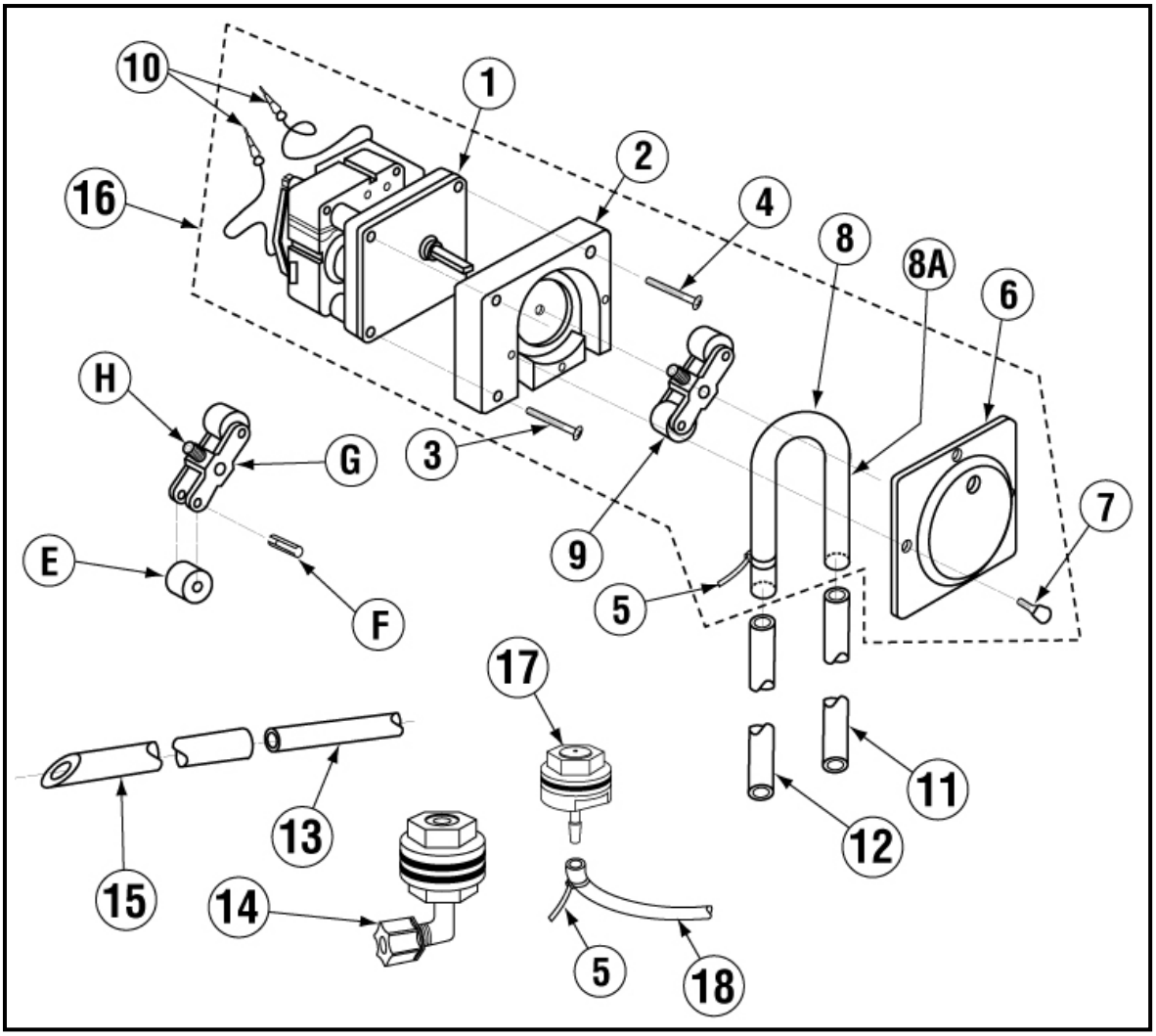
1.3.11. Control Box (Effective 06/2007)



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04904.60	Top Drawer
2	8	00411.00	Micro switch
3	1	00408.80	Timer 2 Minute 8 Cam
3A	1	00501.00	Timer Motor
4	18	00965.00	6-32 Nylon Insert Lock Nut
5	1 (2*)	00631.00	Ice Cube Relay
6	4	00470.10	Rubber Boot
7	1	15520.00	Power Block 12 Position
8	2	13826.10	4-40 X 3/4" Pan Head screw
9	1	00404.82	Contactor Relay
10	1	00474.00	Delimer Switch Bracket
11	1	00475.30	Delimer Switch DPST 20 Amp.
12	1	03202.60	Thermometer Transformer
13	1	00438.00	Snap bushing, Universal
14	2	13826.50	4-40 Hex Nuts

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
15	14	00907.00	6-32 X 1/2 SS Panhead Screw
16	1	03203.66	Thermister
17	1	06231.04	L-1X Drawer Label
18	1	06231.05	L-1X16 Drawer Label
19	1	03203.55	Thermometer Bracket
20	1	03203.50	Single Temp. Display Unit
21	1	00557.55	Magnetic Reed Switch (NEW)
22	1	15524.00	Power Rocker Switch
23	1	03481.00	Drain Rocker Switch
24	1	00421.40	Start/Fill Rocker Switch
25	2	03705.82	Sponge Strip
26	2	00907.10	6-32 X 1/2 Black Oxide Screw-Philp
27	1	03408.50	Counter (Panel Mount – Small)
28	2	00916.00	6-32 PM Nut
29	4	00421.51	6-32 X 1/4 SS Panhead Screw

1.3.12. Peristalic Pump Assembly

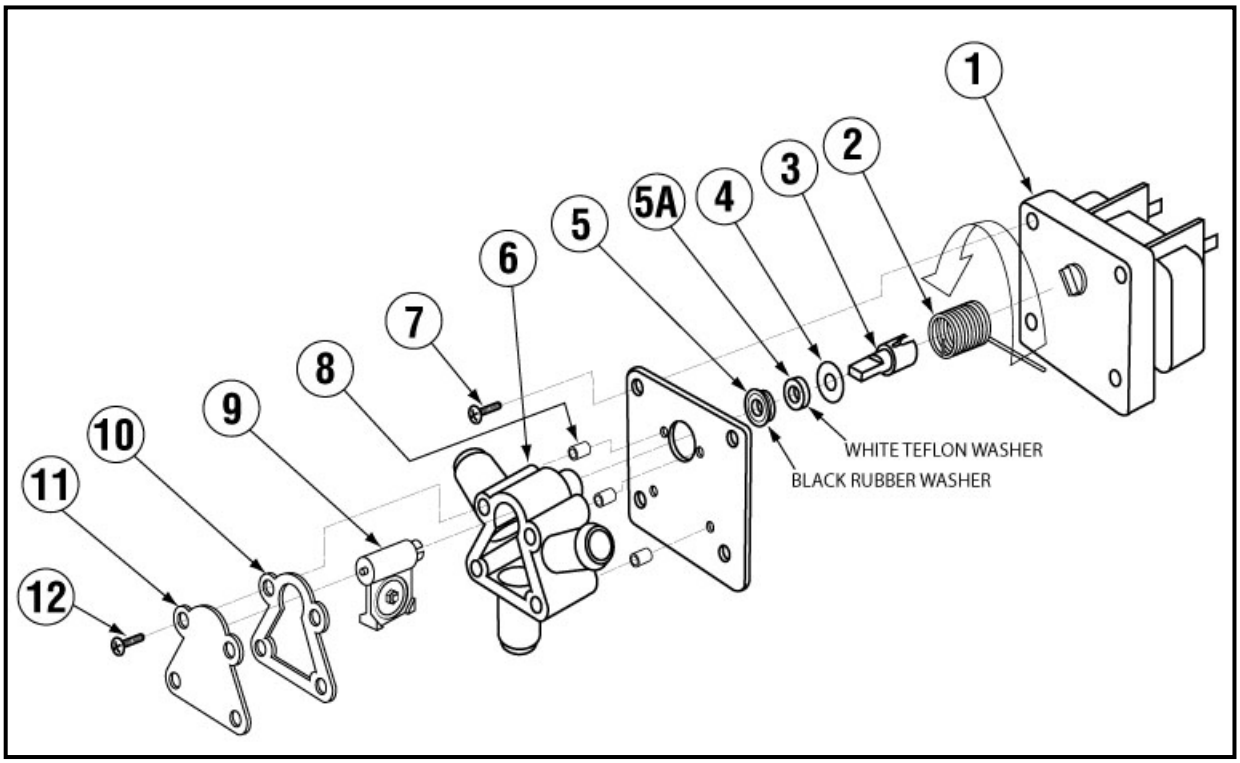


ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	3	00416.00	Peristaltic Pump Motor
2	3	00417.00	Peristaltic Pump Block
3	6	00919.00	10-32 x 1 1/2" Pan Head Screw
4	3	00918.00	10-32 x 1 1/2" Fillister HD Screw
5	6	00932.00	Wire Tie – Large
6	7	00418.00	Peristaltic Pump Block Cover
7	12	00911.00	8-32 x 1/2" Pan Head Screw
8	2	00435.00	Squeeze Tube (Clear)
8A	1	00458.00	Squeeze Tube – Black Detergent
9	3	00419.00	Peristaltic Rotor Assembly
E	6	00423.00	Rotor Bearing
F	6	00422.00	Rotor Bearing Pin

ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
G	3	00424.00	Rotor Bearing Carriage
H	3	00935.00	1/4"-20 x 1/4" Allen Screw
10	6	00448.00	Barrel Connector (Male)
11	AR	00425.51	Chemical Tubing (Blue)
12	AR	00425.53	Chemical Tubing (Red)
13	AR	00425.54	Chemical Tubing (White)
14	2	03415.00	Chemical Tube Bulkhead
15	2	00443.00	Tube Stiffener
16*	1	00415.00	Complete Peristaltic Pump
17	1	03415.60	Bulk Head For Sanitizer
18	1	00435.62	24" Squeeze Tube

**Item 16 includes items 1-4, 6-10.*

1.3.13. Drain Valve



ITEM NO.	NO. REQ'D	P/N	DESCRIPTION
1	1	04103.21	L-1X Drain Motor 115V, 60Hz
2	1	04103.14	L-1X Drain Valve Spring
3	1	04103.20	L-1X Drain Valve Drive Pin
4	1	04103.19	L-1X Drain Valve Washer (Thin)
5	1	04103.17	L-1X Drain Seal Washer (Black)
5A	1	04103.23	Drain Seal Washer (White)
6	1	04103.12	L-1X Drain Valve Housing
7	4	00941.00	#10-32 x 5/8" Pan Head Screw
8	3	04103.24	Drain Valve Housing Spacer
9	1	04103.16	L-1X Hinge/Seal
10	1	04103.15	L-1X Drain Housing Gasket
11	1	04103.13	L-1X Drain Valve Housing Cover
12	4	04103.18	L-1X #8 x 5/8" Self-Threading Screw